FIG.1

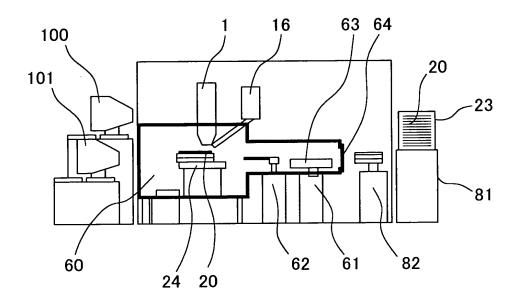


FIG.2

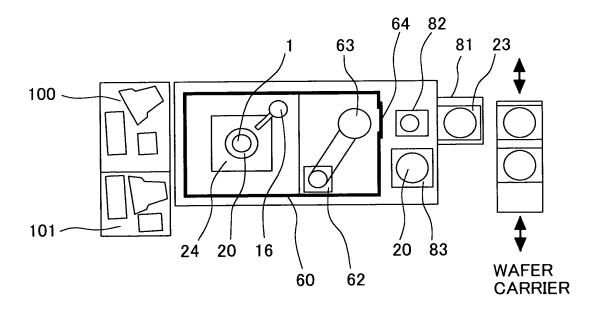


FIG.3

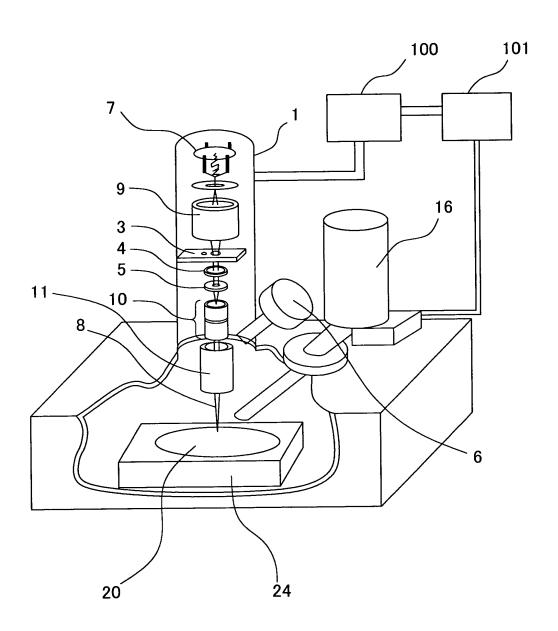


FIG.4

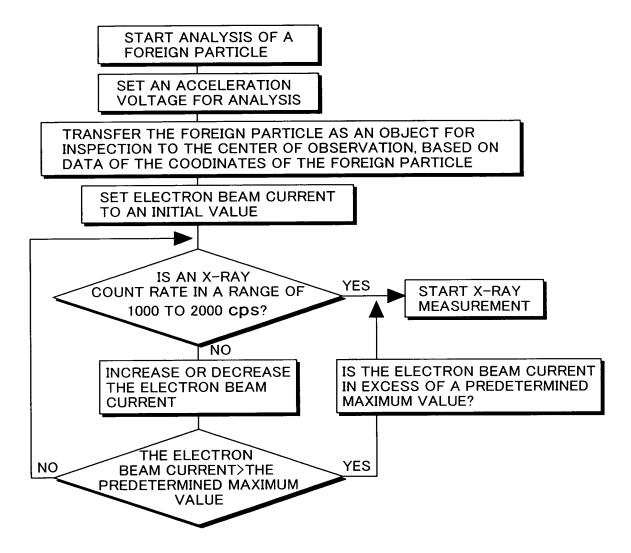


FIG.5

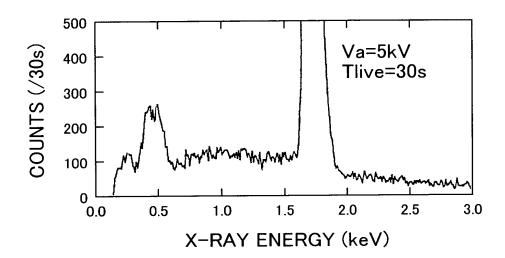


FIG.6

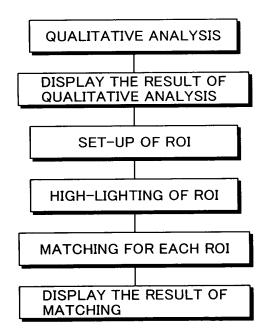


FIG.7

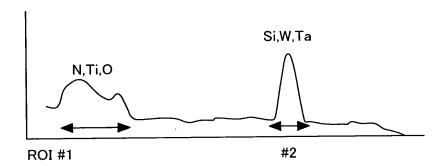


FIG.8

ROI	ENERGY	}5	F = 30 L	IN ORDER OF THE DEGREE	IN ORDER OF THE DEGREE OF MATCHING	CHING
NUMBER	REGION	z	RESOLI	BEST	2ND	3RD
	START	0.2	DEGREE OF MATCHING X ²	1.5	25	205
#			HIGHT PARAMETER	0.05	0.012	0.0001
Ē	í	ı	(RATIO OF COUNT))		
	END	0.7	NAME OF MAITER (SPECTRUM LABEL)	TiN50nm/Si	Ti50nm/Si	Si02
	START	1.5	DEGREE OF MATCHING X ²	0.3	11.4	35
\$			HIGHT PARAMETER	11	51.0	600
7#			(RATIO OF COUNT)	<u>-</u>	<u>;</u>	9
	END	1.9	NAME OF MATTER (SPECTRUM LABEL)	ï	Та	×
	CTADT	٥	DEGREE OF MATCHING X ²	1.2	1.5	1.6
- - -	110	7.0	HIGHT PARAMETER	ç	ر بر	010
ן חרר			(RATIO OF COUNT)	- 5	2	7
	END	2.0	NAME OF MATTER (SPECTRUM LABEL)	TiN50nm/Si	Ti50nm/Si	હ

FIG.9

OBTAIN A GROUP OF X-RAY
SPECTRA OF FOREIGN PARTICLES

SET UP ROIS

COMPARE AN X-RAY SPECTRUM OF THE GROUP OF
THE X-RAY SPECTRA WITH OTHER SPECTRA OF
THE GROUP FOR EACH OF THE ROIS

CATEGORIZE THE GROUP OF THE
X-RAY SPECTRA INTO SUBGROUPS

COMPARE A REPRESENTATIVE X-RAY SPECTRUM OF
THE RESPECTIVE SUBGROUPS WITH A LIBRARY

DISPLAY A NUMBER HIT OR A SUBSTANCE NAME HIT,
IN THE LIBRARY, TOGETHER WITH A DEGREE OF
MATCHING AND COUNT RATIO

FIG.10

OBTAIN AN X-RAY SPECTRUM A OF A FOREIGN PARTICLE
ON CONDITION OF ACCELERATION VOLTAGE AT 5 kv

OBTAIN AN X-RAY SPECTRUM B OF A FOREIGN PARTICLE
ON CONDITION OF ACCELERATION VOLTAGE AT 3 kv

CALCULATE AN INTENSITY RATIO OF THE X-RAY
SPECTRUM B TO THE X-RAY SPECTRUM A (B/A)

COMPARE B/A WITH A DATABASE

DISPLAY STACKING ORDER OF RESPECTIVE

ELEMENTS ON THE SURFACE OF A SPECIMEN

FIG.11

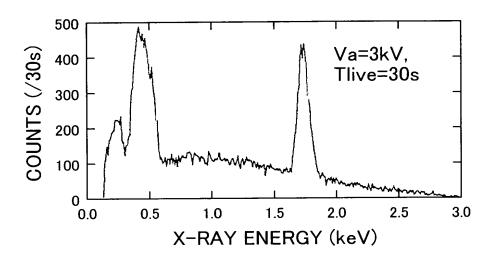


FIG.12A

FIG.12B

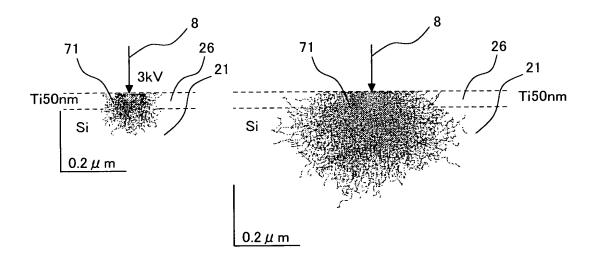


FIG.13

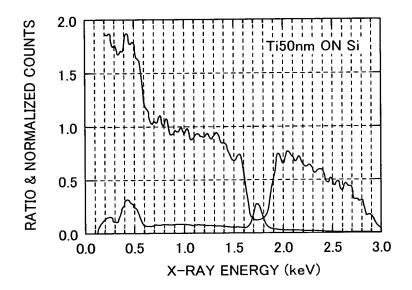


FIG.14

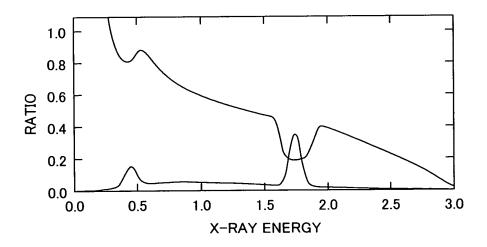


FIG.15

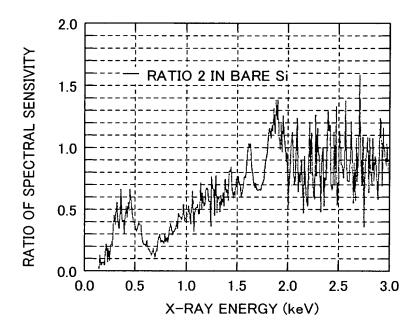
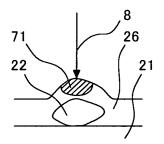
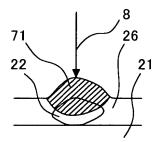


FIG.16A FIG.16B FIG.16C





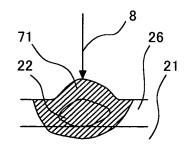
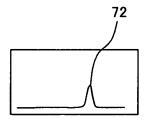
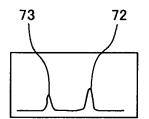


FIG.17A FIG.17B FIG.17C





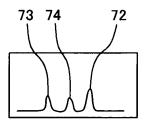


FIG.18A

FIG.18B

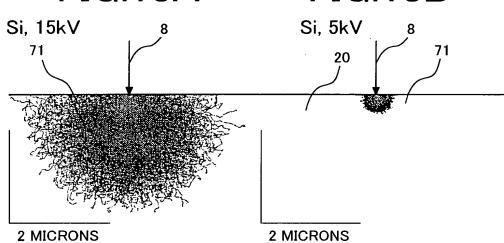


FIG.18C

FIG.18D

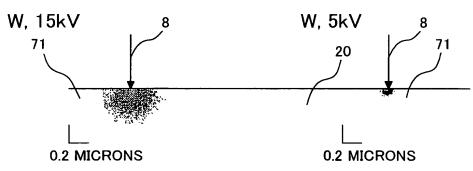


FIG.19

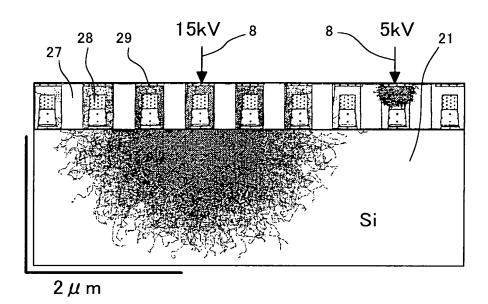


FIG.20

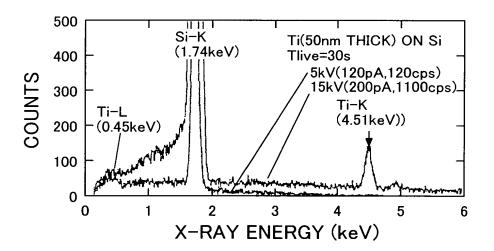


FIG.21A

X RAY ENERGY

FIG.21B

X RAY ENERGY

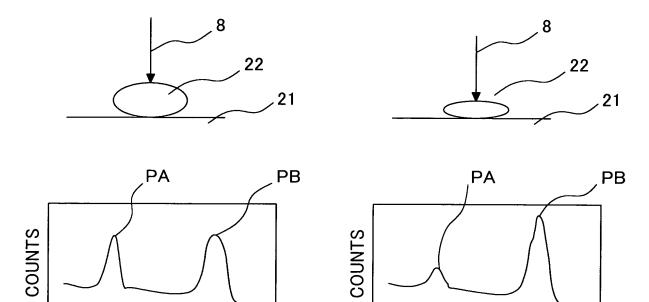


FIG.22

